



# STATE OF CONNECTICUT

## CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

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Web Site: [www.state.ct.us/csc/index.htm](http://www.state.ct.us/csc/index.htm)

April 30, 2002

Mr. Christopher B. Fisher, Esq.  
Cuddy & Feder & Worby  
90 Maple Avenue  
White Plains, NY 10601-5196

RE: **EM-AT&T-002-015-138-158-161-020417** – AT&T Wireless notice of intent to modify existing telecommunications facilities located at: 401 Wakelee Avenue, Ansonia; 1875 Noble Avenue, Bridgeport; 623-627 Honeyspot Road, Stratford; 20 Post Office Lane, Westport; and 289 Danbury Road, Wilton, Connecticut.

Dear Atty. Fisher:

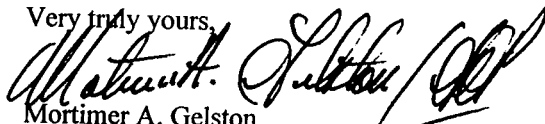
At a public meeting held on April 25, 2002, the Connecticut Siting Council (Council) acknowledged your notice to modify these existing telecommunications facilities, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here and in your notice[s] dated April 16, 2002. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by six decibels, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

This decision is under the exclusive jurisdiction of the Council. Any additional change to this facility will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50u including, without limitation, imposition of expenses resulting from such failure and of civil penalties in an amount not less than one thousand dollars per day for each day of construction or operation in material violation.

Thank you for your attention and cooperation.

Very truly yours,

  
Mortimer A. Gelston  
Chairman

MAG/DM/laf

c: Honorable James T. DellaVolpe, Mayor, City of Ansonia  
Honorable Joseph P. Ganim, Mayor, City of Bridgeport  
Mr. Mark S. Barnhart, Town Manager, Town of Stratford  
Honorable Diane G. Farrell, First Selectman, Town of Westport  
Honorable Paul F. Hannah, Jr., First Selectman, Town of Wilton

CITY OF BRIDGEPORT  
OFFICE OF THE CITY ATTORNEY

CITY ATTORNEY  
Mark T. Anastasi

ASSISTANT CITY ATTORNEYS

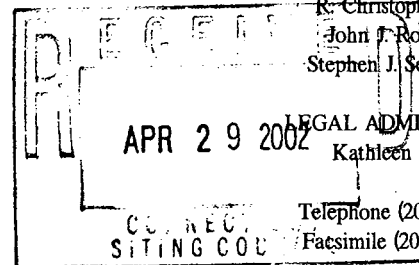
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*Via Facsimile and First Class Mail*

April 25, 2002

S. Derek Phelps  
Connecticut Siting Council  
10 Franklin Square  
New Britain, CT 06051

Re: Application EM-AT&T-002-015-138-158-161-020417 – AT&T Wireless PCS, LLC d/b/a/ AT&T Wireless notice of intent to modify existing telecommunications facilities located in Ansonia, Bridgeport, Stratford, Westport, and Wilton, Connecticut – Siting of additional equipment box at 1875 Noble Avenue-Beardsley Zoological Gardens

Dear Mr. Phelps:

The City of Bridgeport ("City") is in receipt on April 22, 2002, of a copy of your agenda for April 25, 2002, and the application of AT&T Wireless in the matter noted above. The application, as it pertains to the City, is for permission to site an additional equipment box at the monopole located at the Beardsley Zoological Gardens, 1875 Noble Avenue, Bridgeport. Please enter my appearance in this matter on behalf of the City.

In response to my request for additional information, I am in receipt on April 25, 2002, of detailed site maps of the telecommunications facility site at the Beardsley Zoological Gardens from AT&T Wireless. These drawings indicate that the new equipment box would be sited behind the existing fence and landscaping on the original concrete pad for the facility. Since this site is open to the public and in close proximity to activities that are designed for children, the screening of this equipment is of paramount importance to the City. The City has no objection to AT&T's request provided the equipment box is located as indicated on the drawings.

If there are any questions regarding this matter, please do not hesitate to contact me.

Sincerely,

Melanie J. Howlett  
Assistant City Attorney

Cc: William Shaw, Clerk Planning & Zoning Commission  
Darryl Hendrickson, Bechel Telecommunications  
Linda Grant, Cuddy Feder & Worby, LLP  
Chris Fischer, Cuddy, Feder & Worby LLP

EM-AT&T-002-015-138-158-161-020417  
**CUDDY & FEDER & WORBY LLP**

90 MAPLE AVENUE  
WHITE PLAINS, NEW YORK 10601-5196

**CUDDY & FEDER**  
1971-1995

NEIL J. ALEXANDER (also CT)  
CHARLES T. BAZYDLO (also NJ)  
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THOMAS M. BLOOMER  
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CHAUNCEY L. WALKER (also CA)  
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ROBERT L. OSAR (also TX)  
MARYANN M. PALERMO  
ROBERT C. SCHNEIDER  
LOUIS R. TAFFERA

VIA FEDERAL EXPRESS

Hon. Mortimer Gelston, Chairman and Members  
of the Siting Council  
Connecticut Siting Council  
10 Franklin Square  
New Britain, Connecticut 06051

April 16, 2002

**RECEIVED**

APR 17 2002

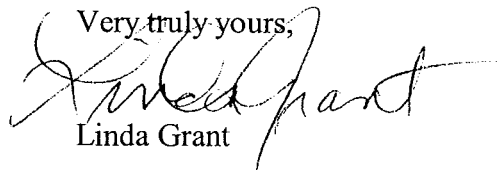
CONNECTICUT  
SITING COUNCIL

Re: AT&T Wireless Notice of Exempt Modification  
289 Danbury Road, Wilton, Connecticut  
✓ 623-627 Honeyspot Road, Stratford, Connecticut  
✓ 1875 Noble Avenue, Bridgeport, Connecticut  
20 Post Office Lane, Westport, Connecticut  
✓ 401 Wakelee Avenue, Ansonia, Connecticut

Hon. Mortimer Gelston, Chairman and Members of the Siting Council:

On behalf of AT&T Wireless, we respectfully enclose an original and twenty-five copies of its notice of exempt modification with respect to the above mentioned facilities together with a check in the amount of \$500.00. We would appreciate it if these matters were placed on the next available agenda for acknowledgment by the Council. Should the Council or staff have any questions regarding this matter, please do not hesitate to contact us.

Very truly yours,

  
Linda Grant

cc: Christopher B. Fisher, Esq.

**CUDDY & FEDER & WORBY LLP**

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VIA FEDERAL EXPRESS

Hon. Mortimer Gelston, Chairman and Members  
of the Siting Council  
Connecticut Siting Council  
10 Franklin Square  
New Britain, Connecticut 06051

April 16, 2002

RECEIVED  
APR 17 2002  
CONNECTICUT  
SITING COUNCIL

Re: AT&T Wireless – TS-AT&T-015-000901  
1875 Noble Avenue  
Beardsley Zoological Gardens  
Bridgeport, Connecticut  
Notice of Exempt Modification

Hon. Mortimer Gelston, Chairman and Members of the Siting Council:

On October 2, 2000 the Council ruled that AT&T's proposed shared use of the existing VoiceStream facility complied with Section 16-50aa of the Regulations of Connecticut State Agencies (TS-AT&T-015-000901) permitting AT&T to install panel antennas within the "flagpole" tower, with associated equipment cabinets located on a concrete pad within the existing fenced compound located at the Beardsley Zoological Gardens, 1875 Noble Avenue in Bridgeport, Connecticut.

This notice of exempt modification is being provided pursuant to Section 16-50j-72 of the Council's regulations. AT&T will be installing an additional equipment cabinet (approximately 76"H x 76"W x 30"D) on the concrete pad at the facility. There will be no other infrastructure changes to AT&T's facility.

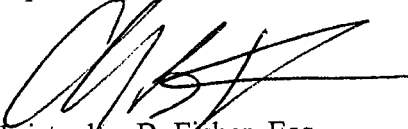
April 16, 2002

Page 2

The proposed addition of equipment to AT&T Wireless' facility does not constitute a "modification" of an existing facility as defined in Connecticut General Statutes Section 16-50i(d). The proposed addition to AT&T Wireless' facility will not result in an increase in the Tower's height or extend the boundaries of the existing fenced area surrounding the Tower. Further, there will be no increase in noise levels by six (6) decibels or more at the Tower site's boundary. AT&T has made measurements of the existing facility to confirm compliance with MPE limits and as set forth in a report prepared by Wireless Facilities, Inc., annexed hereto, the total radio frequency electromagnetic radiation power density at the Tower site's boundary will not be increased to or above the standard adopted by the Connecticut Department of Environmental Protection as set forth in Section 22a-162 of the Connecticut General Statutes. For all the foregoing reasons, addition of AT&T Wireless' equipment to its existing facility constitutes an exempt modification which will not have a substantially adverse environmental effect.

Accordingly, AT&T Wireless requests that the Connecticut Siting Council acknowledge that its proposed modification to the Noble Avenue Facility meets the Council's exemption criteria and requests an acknowledgement of same.

Respectfully Submitted,



Christopher B. Fisher, Esq.  
On behalf of AT&T Wireless

cc: Mayor, City of Bridgeport  
Darryl Hendrickson, Bechtel Telecommunications



*Wireless Facilities, Inc.  
1840 Michael Faraday Drive  
Suite 200  
Reston, VA 20190*

April 1, 2002

Mr. Mortimer A. Gelston, Chairman  
Connecticut Siting Council  
10 Franklin Square  
New Britain, CT 06051

**RE: FCC Compliance Statement for AT&T Site CT-094 (Bridgeport-Beardsley Zoo)**

Dear Mr. Gelston:

On behalf of AT&T Wireless, Wireless Facilities Inc. has performed office analyses for the above referenced site to determine compliance with FCC mandated Maximum Permissible Exposure (MPE) limits as defined in 47 CFR § 1.1310.

The table below gives a brief summary of the site location, its configuration and associated technical parameters.

<i><b>Summary of Site Parameters</b></i>	
<b>Site ID</b>	CT-094
<b>Site Name</b>	Bridgeport-Beardsley Zoo
<b>Latitude</b>	41.21138
<b>Longitude</b>	-73.18083
<b>Address of Structure</b>	1875 Noble Avenue, Bridgeport, CT 06610
<b>Type of Structure</b>	Flagpole
<b>Antenna Owner</b>	AT&T
<b>Address of Antenna Owner</b>	15 East Midland Ave. Paramus, NJ 07652
<b>FCC Class and Type of Service</b>	PCS TDMA (IS-136) PCS GSM
<b>Operating Frequency</b>	PCS Band
<b>Azimuths (deg.)</b>	30, 150, 270
<b>Antenna Radiation Center, AGL</b>	98 ft.
<b>Antenna Manufacturer</b>	Huber Suhner
<b>Antenna Type</b>	Panel

The mathematical equations used in evaluating the power density values are exactly as outlined in the Office of Engineering & Technology (OET) Bulletin Number 65, which contains the FCC guidelines for evaluating human exposure to radio-frequency electromagnetic fields.

In the case of a single radiating antenna, a prediction for power density in the far field of the antenna can be written as:

$$S = \frac{EIRP}{4\pi D^2} = \frac{1.64 * ERP}{4\pi D^2}$$

Where: S = Power density in W/m<sup>2</sup>  
 EIRP = Effective isotropic radiated power (W)  
 ERP = Effective radiated power (W)  
 D = Distance in meters

Using the EPA's recommended factor of 1.6 for 100 % reflection, the worst-case power density can be obtained by incorporating this factor into the above equation. If the distance, D, is in centimeters, the ERP is in Watts, then the worst case power density in mW/cm<sup>2</sup> is given by

$$S = \frac{(1.64)(.64)(ERP)(1000 \text{ mW / W})}{\pi D^2}$$

Where: S = Power density in mW/cm<sup>2</sup>  
 ERP = Effective radiated power (W) (# of channels x ERP/channel)  
 D = Distance in centimeters

The results presented in this analysis are based on the following:

- ◆ WFI's analysis considered the transmit parameters for AT&T's existing TDMA system, for the future GSM deployment they are proposing, and for all other existing carriers.
- ◆ The formula utilized for the calculation is taken directly from the FCC OET Bulletin 65 as shown above.
- ◆ The worst-case scenario was assumed with all of the antennas for both the current and the future installation pointing to the base of the tower.
- ◆ A 100% duty cycle with maximum power and the maximum number of channels for each system was assumed.

Description	AT&T PCS		Omnipoint PCS
	Current	Future	
Max. ERP/Ch, Watts	94	275	400
Max. No. of Ch/Sector	16	4	2
Max. ERP/Sector, Watts	1504	1100	800
Antenna Centerline, ft.	98	98	118

The maximum calculated values of power density for this analysis are outlined below:

Provider/Carrier		Point of Worst Case Predicted Level	Predicted Value ( $\mu\text{W}/\text{cm}^2$ )	Maximum Limit for Uncontrolled Environment Set by FCC ( $\mu\text{W}/\text{cm}^2$ )	% of the Standard
AT&T	Current PCS TDMA	Base of the flagpole	63.85	1000	6.39
	Future PCS GSM	Base of the flagpole	46.70	1000	4.67
Omnipoint, PCS		Base of the flagpole	22.92	1000	2.29
<b>Total % of Standard</b>					<b>13.35</b>

The results of these analyses indicate that output power levels for the AT&T owned equipment deployed at the above referenced facility meet FCC approved exposure limits for all uncontrolled areas where general population exposure may exist. The maximum level of RF radiation contributed by AT&T in all uncontrolled areas, assuming a worst case scenario and a 100% duty cycle for all transmitters, is equal to or less than 11.06% (6.39 + 4.67) of the maximum permissible exposure limit mandated by the FCC and endorsed by the NCRP and ANSI/IEEE.

Based on the transmit parameters as indicated in the table above, the worst-case composite level of RF radiation in all uncontrolled areas for all identified systems operating at this facility is equal to or less than 13.35% of the FCC maximum permissible exposure limit.

To the best of my knowledge, the statements made and information disclosed in this study are complete and accurate.

Sincerely,  
Wireless Facilities, Inc.



Dan Hardiman  
Senior Engineer II  
Fixed Network Engineering